

### **ABSTRACT OF THE DISCLOSURE**

An apparatus for controlling the power supplied from an AC power supply to an ohmic load, includes a switch for connecting the load to the AC power supply, a controller for providing a control signal to the switch, and a rectifier bridge having an input and an output. The input is adapted for connection to the AC power supply and  
5 the output is connected to a series connection of a first inductor, the load and the switch. The controller provides a control signal with a frequency which is at least 500 times higher than the frequency of the AC power supply. The switch is switched on and off by the control signal. The controller comprises a control element for varying the duty cycle of the control signal.